ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

QUARTERLY PROGRESS REPORT

APRIL 1, 2016 – JUNE 30, 2016

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ACRONYMS

AD	Analytic Department
AOR	Agreement Officer's Representative
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
BAU	Business as Usual
BP	British Petroleum
BREEAM	Building Research Establishment Environmental Assessment Method
CBSM	Community Based Social Marketing
CC	Climate Change
CFL	Compact Fluorescent Lightbulb
CoM	Covenant of Mayors
COP	Chief of Party
DCA	Development Credit Authority
DCOP	Deputy Chief of Party
DWG	Decision Ware Group
EB	Energy Balance
EBRD	European Bank for Reconstruction and Development
EC-LEDS	Enhancing Capacity for Low Emission Development Strategies
E5P	Eastern European Energy Efficiency and Environment Partnership
EE	Energy Efficiency
EPBD	Energy Performance of Buildings Directive
EU	European Union
EWG	Expert Working Group
FFC	Fast Forward Communications
G4G	Governance for Growth
GALA	Georgian Association of Landscape Architects
GB	Green building
GBCG	Green Building Council Georgia
GDP	Gross Domestic Product
GE	Georgia
GEC	Grants Evaluation Committee
GeMunee	Georgian Municipal Energy Efficiency
GHG	Greenhouse gases
GIZ	Intended Nationally Determined Contribution
GOG	Government of Georgia
GTU	Georgian Technical University
ICC	International Code Council
IECC	International Energy Conservation Code
INDC	Intended Nationally Determined Contribution
JRC	Joint Research Center
LED	Low emission development
LEED	Leadership for Energy and Environment Design
LEDS	Low Emission Development Strategy (ies)
MOE	Ministry of Energy
MoENRP	Ministry of Environment and Natural Resources Protection
MoESD	Ministry of Economy and Sustainable Development
MOU	Memorandum of Understanding
MRV	Monitoring, Reporting and Verification
Muni-EIPMP	Municipal Inventory, Projection and Mitigation Planning
NAMA	Nationally Appropriate Mitigation Actions
NGO(s)	Non-Governmental Organization(s)
NTC	New Technology Fund

PEA	Programmatic Environmental Assessment
PR	Public Relations
PSA	Public Service Announcement
PWD	People with Disabilities
RFP	Request for Proposals
SC	Steering Committee
SCM	Steering Committee Meeting
SDAP-Center	Sustainable Development and Policy Center
SEAP	Sustainable Energy Action Plan
SEO	Sustainable Energy Office
SIDA	Swedish International Development Cooperation
SWG	Sub-Working Group
TEC	Tender Evaluation Committee
TOT	Train-the-Trainer
USA	United States of America
USAID	United States Agency for International Development
USG	United States Government

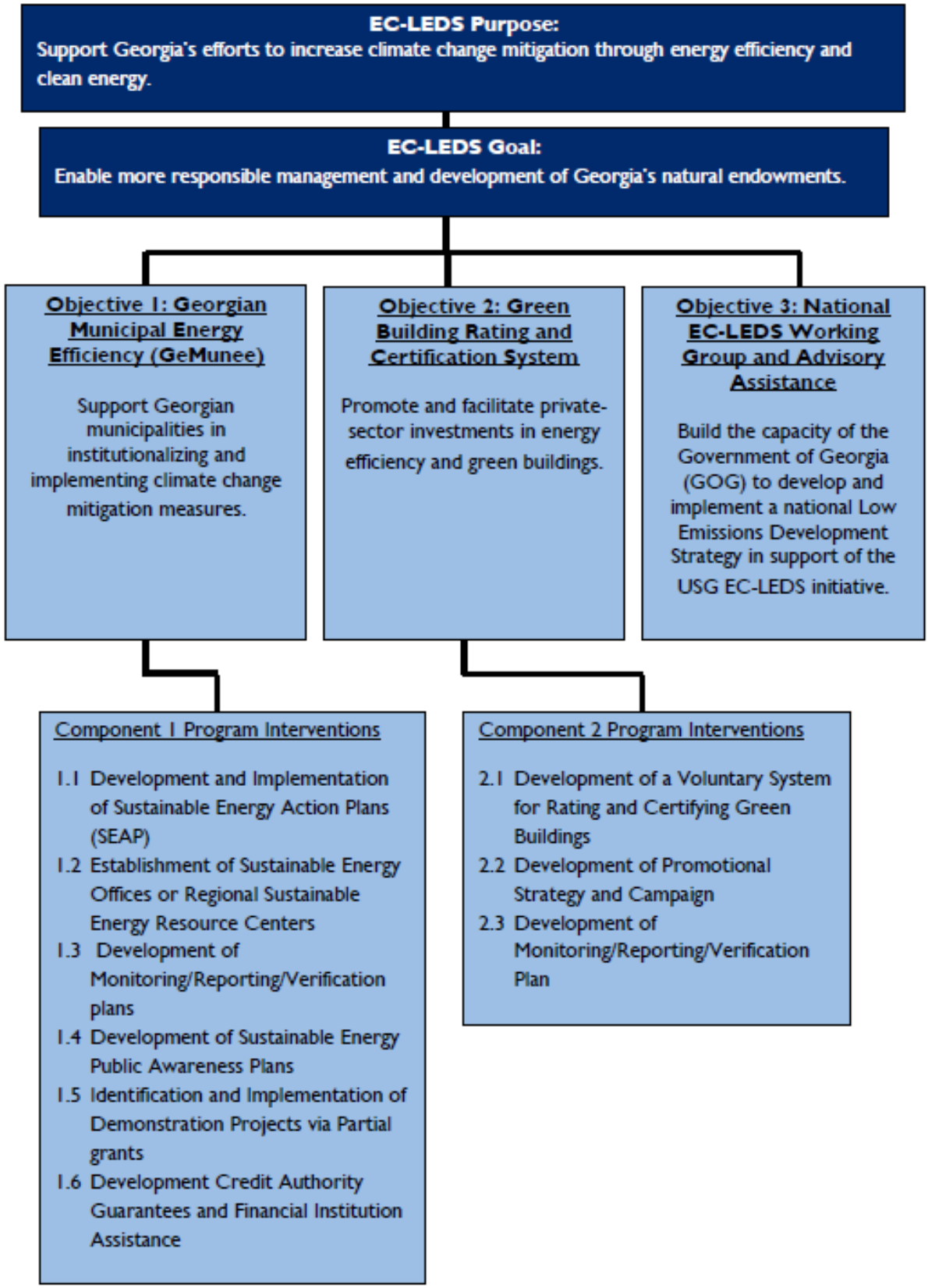
I. EXECUTIVE SUMMARY

Georgia's Enhancing Capacity for Low Emission Development Strategies (EC-LEDS) Clean Energy Program, funded by the United States Agency for International Development (USAID), is a four-year (October 2013 – September 2017) effort focusing on three activities: 1) Georgian Municipal Energy Efficiency (GeMunee); 2) Green Building Rating and Certification System; and 3) National EC-LEDS Working Group and Advisory Assistance. USAID awarded Winrock International (WI) a cooperative agreement to implement Georgia's EC-LEDS Clean Energy Program to support climate change mitigation by building municipal capacity in climate change mitigation measures and raising public awareness; increasing private sector investment in energy efficiency (EE) and green buildings (GB); and strengthening Government of Georgia (GOG) capacity to develop and implement a national Low Emission Development Strategy (LEDS). This report describes year three, quarter three activities of the EC-LEDS Clean Energy Program covering the period April 1, 2016 through June 30, 2016.

The objectives of the EC-LEDS program are to (1) support Georgian municipalities in institutionalizing and implementing climate change mitigation measures, (2) promote and facilitate private sector investment in energy efficiency and green buildings, and (3) build the capacity of the GOG to develop and implement a national Low Emission Development Strategy in support of the United States Government (USG) EC-LEDS initiative. During the four years, the EC-LEDS Clean Energy Program is expected to reduce greenhouse gas (GHG) emissions in Georgia by at least 236,372.9 metric tons of CO_2 equivalent, facilitate up to $14 million in private sector investments in clean energy, and lead to energy savings of up to 315 GWh (the equivalent of approximately $22 million).

Figure 1, EC-LEDS Activities Map, illustrates the project purpose, goal, the objectives, and the program initiatives associated with each objective.

Figure 1. EC-LEDS Activities Map



I. YEAR THREE, QUARTER THREE HIGHLIGHTS

A. PROGRESS TO DATE

A summary of progress through the end of quarter three, year three, by selected indicators is provided below. If total cumulative actual to date is zero, the indicator is not included in the table below.

Table 1. Summary of Total Cumulative Actuals vs. LOP Target by Output and Outcome Indicators

Indicator	Type	Total Cumulative Actual (Y1+Y2+Y3/ Q3)	Total Cumulative Target (Y1+Y2+Y3)	Y3 Target	LOP Target
OC2: Quantity of greenhouse gas (GHG) emissions, measured in metric tons of CO_2equivalent ($CO2_e$), reduced or sequestered as a result of USG assistance	Outcome	0	43,000	55,000	236,000
OC3: Energy saved due to energy efficiency/conservation projects as a result of USG assistance	Outcome	0	62,000	75,000	315,000
OC4: Value of private sector clean energy investments	Outcome	37.36	4	3.64	14
OC5: Number of local organizations positioned to receive USG funding and implement USG projects as a result of EC-LEDS assistance	Outcome	0	0	1	1
OC6: Percentage of individuals reached by the public awareness campaign who take at least one energy saving action	Outcome	0	10%	10%	10%
OC7: Expected lifetime energy savings from energy efficiency or energy conservation, as a result of USG assistance (OC7)	Outcome	19,953,141.12	19,929,600	44,583,406.65	

Indicator	Type	Total Cumulative Actual (Y1+Y2+Y3/ Q3)	Total Cumulative Target (Y1+Y2+Y3)	Y3 Target	LOP Target
OC8: Projected greenhouse gas emissions reduced or avoided through 2030 from adopted laws, policies, regulations, or technologies related to clean energy as supported by USG assistance	Outcome	1726,765.7	1,699,549.7	3,237,402	
OP1: Number of low emission development plans developed and/or implemented as a result of USG assistance (LEDS, SEAP, other)	Output	9	10	3	10
OP2: Number of Sustainable Energy Offices (SEOs) or regional Sustainable Energy Resource Centers established in participating municipalities	Output	1	3	2	5
OP4: Number of stakeholders using climate information in their decision-making as a result of USG assistance.	Output	20	14	2	16
OP5: Number of laws, policies, strategies, plans, agreements or regulations addressing climate change mitigation officially adopted or implemented/proposed with USG assistance	Output	1	2	1	3
OP6: Number of climate change mitigation tools, technologies or methodologies developed, tested and/or adopted as a result of USG assistance	Output	2	2	2	2
OP7: Number of	Output	0	500	1,000	1,500 hh

Indicator	Type	Total Cumulative Actual (Y1+Y2+Y3/ Q3)	Total Cumulative Target (Y1+Y2+Y3)	Y3 Target	LOP Target
households/businesses/ public institutions implementing energy efficiency measures as a result of USG assistance (# HHs, # businesses, # institutions)		0	2	8	10 Businesses
		0	2	8	10 Institutions
OP8: Number of climate change mitigation projects implemented as result of USG assistance	Output	8	5	15	20
OP10: Number of individuals reached through outreach campaigns	Output	521,552	500,000	250,000	1,000,000
OP 11: Number of USG-supported training or activities that contribute to building the EE knowledge and skills in the GOG, Municipalities, industry and other stakeholders	Output	49	36	14	50
OP13: Value of grants disbursed as a result of USG assistance for scientific research and energy efficiency pilot projects	Output	$ 309,459.68	$ 500,000.00	$ 190,540.32	$ 500,000.00
OP14: Number of promotional plans and campaigns implemented to increase awareness of citizens about energy efficiency	Output	2	2	2	2
OP15: Number of beneficiaries receiving improved infrastructure services due to USG assistance	Output	0	1	2	3
OP17: Number of MRV plans developed to track the impact of SEAP implementation	Output	8	7	3	10

Indicator	Type	Total Cumulative Actual (Y1+Y2+Y3/ Q3)	Total Cumulative Target (Y1+Y2+Y3)	Y3 Target	LOP Target
OP18: Number of individuals at national and local level trained in climate change as a result of USG assistance	Output	445	50	20	70
OP22: Number of decisions made by LEDS steering committee or involved agencies using analysis based on MARKAL or other appropriate tools	Output	2	0	2	2

B. COMPONENT ONE HIGHLIGHTS

- The Georgian version of the Sustainable Energy and Climate Action Plan (SECAP) for the Municipality of Telavi Community (Temi Telavi Municipality) was finalized by local experts and municipality representatives, with technical support from Remissia. The document was submitted to the management of the Municipality and is being reviewed by the representatives of different departments of the Municipality to be presented to the Council of the Temi Telavi Municipality for approval;
- The English version of the technical project proposals for Bolnisi and Temi Telavi Municipalities (Utilization of Solar Energy for through Centralized Solar Farm in Bolnisi and Hybrid Utilization of Biomass and Solar Energy for Heating of Kindergarten Building in Pshaveli Village) were prepared with technical support from the project;
- Bolnisi Municipality Sustainable Energy Action Plans (SEAP) document was translated into English and uploaded on the Covenant of Mayors (CoM) web page for review and approval by the Joint Research Center (JRC);
- Working meetings were conducted with the Mayor and other representatives of Mtskheta City hall to discuss the details of the SEAP preparation process. The latter has been started with the leadership of the Mayor and facilitation of SEAP coordinator and local expert. The project provides technical support in order to make sure that the energy audit is conducted properly, baseline emissions and BAU emissions are calculated and mitigation measures are identified.
- EC-LEDS drafted amendments to the Economic Development Departments' charters for the municipalities of Kutaisi, Zugdidi, and Batumi. Said amendments will ensure that Sustainable Energy Offices (SEO) functions are incorporated into the Economic Development Departments of the municipalities.

- EC-LEDS provided assistance to Akhaltsikhe in setting up a Sustainable Development Agency, which incorporates SEO functions.
- EC-LEDS worked directly with the municipalities of Bolnisi and Telavi Community (Temi) to identify grant projects. EC-LEDS identified one project for each municipality and assisted them in developing project proposals. After receiving USAID concurrence and approval on the selected projects, EC-LEDS will formalize agreements with the subrecipient and the project works will commence.
- Vendors for Batumi and Zugdidi Street lighting projects delivered the lighting fixtures to the municipalities.

C. COMPONENT THREE HIGHLIGHTS

- MARKAL-Georgia's BAU scenario underwent final review and updated the BAU report was prepared;
- Sub-working group meetings on transport, buildings, energy, and industry sectors were conducted to discuss the analysis of emissions and past and future trends as well as the mitigation options; EC-LEDS provided analyses, projections, and comprehensive information on sectors' development in Georgia.
- Based on the meeting and technical work conducted by the EC-LEDS team, the first versions of industry, transport, energy and building sector overviews and mitigation measures were finalized in Georgian, translated in English, and submitted to USAID;
- The development of sectoral chapters on transport, buildings, energy and industry for LEDS document was started and entered an active phase. The draft of the Transport chapter was finalized and is under internal review;
- The EC-LEDS team started the preparatory work for organizing working meetings of the sectoral working groups and steering committee to be held in the coming months.
- The Climate Change office of the Ministry of Energy and Natural Resource Protection (MoENRP) was regularly receiving updates on the development of MARKAL Georgia as well as detailed clarifications on the main findings and results from EC-LEDS; the climate change (CC) office also needed EC-LEDS assistance for preparing the information and materials for major international events in the field of climate change and the related mitigation options.
- EC-LEDS intensified its works with the sectoral Sub Working Groups (SWGs) and arranged all four energy related SWGs working meetings. The SWGs received detailed information regarding their relevant sectors and had intensive and fruitful discussions with EC-LEDS.
- As a follow-on of the conducted meetings, SWGs members provided their feedback, which were further analyzed and sorted out before including in the LEDS document.
- EC-LEDS expended its activity with the governmental bodies and alongside the ministries - the main stakeholders of the LEDS process - worked intensively with Tbilisi

City Hall. EC-LEDS provided consultancy services in the field of clean transportation. Municipal transport related emissions were analyzed and discussed, as it stands as a very vulnerable issue for Tbilisi and other large CoM signatory cities in Georgia.

- EC-LEDS was actively involved in the works of all major International projects, trainings and programs, including Georgia's First Biennial Update Report (FBUR) to the UNFCCC, managed by UNDP.

II. ACTIVITIES COMPLETED DURING YEAR THREE, QUARTER THREE

A. COMPONENT ONE: GEORGIAN MUNICIPAL ENERGY EFFICIENCY (GEMUNEE)

i. Develop and Implement Sustainable Energy Action Plans (SEAPs)

1. Develop Muni-EIPMP Analytical Tool

During this quarter, EC-LEDS continued testing and updating the muni-EIPMP tool under the context of developing the Temi Telavi and Mtskheta Municipality SEAPs.

The testing and updating will continue through the end preparing the Mtskheta SEAP and will be presented and submitted to the municipalities for their further application.

2. Develop and Conduct Workshops and On-the-Job Training on SEAP Development and Monitoring

Report on the workshop on SEAP monitoring parameters and techniques conducted on March 31 in Coste Hotel Tbilisi was prepared and submitted to USAID.

As for the working meetings, during this quarter, EC-LEDS held or participated in the following meetings:

- Two final working meetings were conducted with the SEAP coordinator and local experts of Temi Telavi Municipality to technically review and finalize the collected data and information; also to brainstorm on possible mitigation measures to be included in the plan.
- Two working meetings were held with Mtskheta City Hall. During the first working meeting, EC-LEDS team met with the Mayor of Mtskheta and the SEAP coordinator to discuss the details of possible collaboration with and technical support from the EC-LEDS project. The Mayor expressed interest and readiness to make an effort to coordinate the process as much as possible on a local level. After the meeting, the Mayor sent an official letter to EC-LEDS COP with the request to include Mtskheta in the list of the municipalities receiving

technical support from EC-LEDS project. At the second meeting, EC-LEDS team met the SEAP coordinator of Mtskheta City and potential local expert who would be helping Mtskheta Municipality in data collection and analysis on a local level. The local expert was provided with the detailed information on the methodology for developing the SEAP document, possible barriers and solutions were also identified. In-house experts of the project provided the local experts with all supporting excel sheets, tables, and draft letters that should facilitate the data collection and analysis on a local level.

3. Assist in Developing, Revising, and Updating SEAPs for municipalities with Priority Needs

The SECAP (Sustainable Energy and Climate Action Plan) for Temi Telavi Municipality was finalized and submitted to the Temi Telavi Municipality for review, comments, and final changes. In addition to traditional SEAP sectors – buildings, transport, street lighting, greening, and waste, the document addresses the energy efficiency measures in the agricultural sector as well. The communication and Monitoring, Reporting, and Verification (MRV) plans are also developed. The SECAP document was submitted for translation into English and is under the process of uploading on the CoM web-site.

In May, an active collaboration started between the SEAP coordinator and local experts from Mtskheta City Hall. The local expert provided locally available data and information on requested sectors. There were some difficulties in data collection as Mtskheta became a self-governing city only in 2014 and energy consumption data for 2012 and 2013 were challenging to identify and access. However, the issue was addressed in consultation with EC-LEDS technical experts and the team jointly started to analyze the data and provided information.

The project proposals for the Bolnisi Municipality and Temi Telavi Municipality (English versions) were finalized and submitted to the local governments. Bolnisi SEAP was translated into English and uploaded on CoM web site.

II. Establish Sustainable Energy Offices or Regional Sustainable Energy Resource Centers

During this quarter, EC-LEDS drafted amendments to the charters of Economic Development Departments of Kutaisi, Zugdidi, and Batumi municipalities, which were submitted to municipalities for review, acceptance, and submission to the city councils for approval. EC-LEDS also asked municipalities to identify areas of deficiencies in their departments, focusing on staff capacities, and also addressed EC-LEDS with an official letter describing where the municipalities would require

further technical assistance. EC-LEDS intends to circulate the letter with relevant donors to help municipalities receive the required assistance.

EC-LEDS team also assisted Akhaltsikhe municipality in drafting it's charter for a Sustainable Development Agency, ensuring that all CoM functions are included and there is enough flexibility in the charter to allow the agency to expand on its activities and areas of work in the future, further enhancing sustainability.

III. Develop Monitoring/Reporting/Verification (MRV) Plans

The EC-LEDS team developed the MRV Plan for Temi Telavi Municipality's SECAP, along with the actual SEAP document. Currently, the team is working on the MRV Plan for Mtskheta City Hall.

IV. Develop Sustainable Energy Public Awareness Plans

In this reporting period, EC-LEDS updated the National Communications Plan developed in year one. The Program will continue to take a two-pronged strategic approach to communications: 1) broad information campaigns at the national and local levels to raise general energy efficiency and conservation awareness; and, 2) community-based social marketing to change targeted behavior in selected communities. This quarter in particular, EC-LEDS worked with Kutaisi City Hall.

Kutaisi City Hall addressed EC-LEDS with an official letter requesting to change the planned greening activities under Kutaisi's Community Based Social Marketing (CBSM) campaign. The City Hall arranged an energy efficient public park, which is located above the underground on Rustaveli Avenue in the central-historical district of the city. The location is crucial as it includes many places of public gathering, including: public transport stops, tourism information center, Art Gallery, Public School #1, Golden Marquee, mixed market, and various merchant entities located in the underground. The park will serve as a recreation area for the residents of Kutaisi as well as tourists.

As part of its CBSM pilot campaign in Kutaisi, EC-LEDS supported Kutaisi City Hall in installation of the Daisy-shaped "Solar Tree" equipped with solar elements and modern technologies. The Solar Tree is an imitation of a four-meter high daisy flower, which is equipped with various types of charging plugs attached to the stem. The system of the Solar Tree is made up of three main parts: solar panels, charging controller, and accumulator. Solar panels convert solar energy into the electric energy, which is supplied to the accumulator through the charging controller, where the energy is accumulated. Charging capacity of the Solar Tree is 30 cell phones simultaneously and 50-60 cell phones per 24 hours. As a signatory to the CoM, Kutaisi City Hall's strategy for reduction of GHG emissions envisages reduction of energy consumption using economically accessible energy efficient/renewable energy technologies.

The CBSM launch ceremony was held on June 30.

As part of the SEAP process, EC-LEDS is assisting municipalities in drafting their SEAP communications strategies. In the reporting period, a communications strategy was developed for Telavi SEAP.

V. Identify and Implement Demonstration Projects through Partial Grants

During the reporting period, EC-LEDS worked with the municipalities of Telavi (Temi) and Bolnisi to identify grant projects for award in the third round of the EC-LEDS partial grants program. As a result, EC-LEDS identified two projects and assisted the municipalities in developing the following project proposals: Utilization of Solar Energy through Centralized Solar Farm in Bolnisi and Hybrid Utilization of Biomass and Solar Energy for Heating of Kindergarten Building in Pshaveli Village.

Total cost of each grant is $50,000, with contributions equaling $432,558 of municipal funds in Bolnisi's case and $241,860 in Telavi's case.

EC-LEDS submitted an official request to USAID to receive approval on issuing fixed amount awards (FAAs) to New Technology Center for Bolnisi and Telavi projects. EC-LEDS held a meeting with USAID representatives to go over the details of the submitted request and received suggestions from USAID on changes to the request. EC-LEDS submitted a revised request to USAID on June 27, 2016. EC-LEDS received approval from USAID on June 28, 2016. EC-LEDS has finalized the agreements and has commenced.

In parallel, EC-LEDS finalized agreements with vendors for Zugdidi and Batumi street and park lighting projects, and the vendors delivered the equipment to the municipalities in May. EC-LEDS representatives attended and monitored the delivery and warehousing process together with municipality and vendor representatives.

After receiving USAID approval for the second round of grant projects for Akhaltsikhe, Telavi City, and Rustavi, EC-LEDS finalized agreements with the sub recipients for Telavi and Rustavi projects and project works started. As for Akhaltsikhe project, EC-LEDS encountered delays as Akhaltsikhe needed to provide technical designs to EC-LEDS for the project to be able to announce tenders on procurement of lighting fixtures for Rabati Castle. Akhaltsikhe has not yet provided technical designs as the end of this quarter. EC-LEDS will consider pulling out of this grant project, if the technical designs are delayed, to ensure timely completion of the project by end of September 2016.

EC-LEDS held a meeting with Mtskheta Municipality Mayor and his technical staff, to talk about potential grant projects. As a result, EC-LEDS identified a project, where EC-LEDS may participate with its grant. The project concerns construction of a multi-functional sports complex and swimming

pool, where municipality is investing approximately 4.2 million GEL. EC-LEDS asked the municipality to provide an official letter requesting the program's assistance and project details.

Mtskheta Municipality provided an official letter requesting EC-LEDS grant assistance for the sports complex project. The municipality also provided construction projects. EC-LEDS technical team will evaluate the project and its potential to generate energy savings and GHGs reductions. Once EC-LEDS evaluates the project, the program will present the concept to USAID for concurrence and preliminary approval, and if approved, will assist the municipality in developing a full project proposal.

EC-LEDS held an opening ceremony for Tbilisi Elderly House project on June 27, 2016 and for Kutaisi Torpedo Project on June 30, 2016. USAID, BP and municipality representatives attended the openings.

VI. Development Credit Authority Guarantees and Financial Institution Assistance

European Bank for Reconstruction and Development (EBRD) approved a Euro 27 million sovereign loan to Georgia to be on-lent to Tbilisi to purchase 200 new compressed natural gas (CNG) buses. The new buses will improve services to the population by increasing reliability, safety, and efficiency of public transport while reducing emissions. The loan is supplemented by Euro 7 million grant by the Eastern Europe Energy Efficiency and Environment Partnership (E5P) fund.

B. COMPONENT TWO: GREEN BUILDING RATING AND CERTIFICATION SYSTEM- COMPLETED

In September 23, 2015, EC-LEDS and USAID agreed that the Program met all Component Two targets and thus the Component is deemed complete and there will be no continuation of activities in year three.

C. COMPONENT THREE: NATIONAL EC-LEDS WORKING GROUP AND ADVISORY ASSISTANCE

I. Support to GOG in Developing the LEDS Document

EC-LEDS team continued work on analyzing activity data, energy consumption and emissions in each considered sector to be used as a basis for the development of sectoral overviews and mitigation options.

The results of the analysis of sectors were presented and discussed at the sub-working groups (SWG) meetings for transport, buildings, energy, and industry. The project team prepared and

delivered two presentations per each working group, one presentation focusing on the analysis of emissions and past and future trends, and the second on the mitigation options in considered sectors.

Based on the outcomes of the SWG meetings, the list of changes to be made to the Business as Usual (BAU) scenario and mitigation scenarios was prepared and sent to DWG to incorporate in MARKAL-Georgia.

MARKAL-Georgia's BAU scenario underwent final review and updated the BAU report was prepared and submitted to USAID.

Based on all technical work conducted, as well as working meetings with the sectoral SWGs, the first versions of industry, transport, energy, and building sector overviews and mitigation measures have been finalized in Georgian, translated into English, and submitted to USAID. After that, the EC-LEDS team started to work on development of the sectoral chapters, which will consist of three parts: (1) description of the current situation in the sector (short versions of overviews), (2) sectoral LEDS strategy for 2030, and (3) description of mitigation measures within the sector. The first draft version of the transport sector chapter has been developed and is currently under internal review. The industry chapter is also under development. For buildings and energy sectors, the descriptions of mitigation measures are drafted.

The project team also prepared presentations for working groups and steering committee meetings to be held in July 2016. The European Union (EU) legislation and individual EU Member countries' policies were analyzed in each sectors to present to sub-working groups and propose the best low emission development strategies for Georgia.

A meeting was held with the Climate Change Office of the Ministry of Environment and Natural Resources Protection to update them on the current status of development of LEDS and plan working group and steering committee meetings in July 2016.

ii. Analytical and advisory service

In the third quarter EC-LEDS actively worked with the sectorial sub working groups (SWGs). On April 8, 2016 EC-LEDS organized a LEDS Transport Sub-Working group meeting, where stakeholders from various governmental, private and non-governmental organizations working in transport sector of Georgia as well as the USAID representatives participated. Transport Sub-Working group meeting was followed by Energy sub-working group meeting, which was held on April 13 at the Ministry of Energy. The meetings summarized the research and findings of LEDS in the sector and analyzed the proposed mitigation options.

The Industry sub-working group meeting was organized by EC-LEDS on April 18. The members of the group received comprehensive information based on LEDS research in this sector. The SWG members and the invited experts agreed on the BAU projections and discussed the related mitigation options. The head of the CC office of MoENRP was interested in the details related to the energy consumption by large energy consuming industry in Georgia, namely clinker and cement

production by "Heidelberg Cement Georgia" and the ratio of dry and wet methods of cement production. The head of the CC office of MoENRP received comprehensive information based on EC-LEDS research of the sector.

On May 10, EC-LEDS organized a LEDS Buildings Sub-Working group meeting. The meeting was attended by the SWG members, invited experts, USAID representatives and other stakeholders. Two Presentations were made: "Overview of the Building Sector of Georgia" and the "Mitigation Measures in the Building Sector of Georgia". The presentations were followed by questions and general discussion. EC-LEDS answered all the questions, made clarifications, and provided analyses, projections and comprehensive information on the Building sector development in Georgia.

Thus EC-LEDS arranged all four energies related SWGs working meetings. The SWGs members received detailed information in their relevant sectors and had intensive and fruitful discussions with the project. SWGs members provided their feedbacks, which were further analyzed and sorted out before including the results into the LEDS document.

iii. Capacity building and technical assistance

The CC office of the MoENRP regularly received updates and clarifications on the projections related to the increase of total primary energy use in BAU scenario, the EC-LEDS advisor in cooperation with the CC office head worked on updated MARKAL Georgia BAU scenario report provided by EC-LEDS. As follow-on activities, the EC-LEDS advisor worked with the head and the staff of the MoENRP CC Office and discussed the sectorial SWGs inputs and analyses on relevant sectorial emissions, as well as mitigation options to be reflected in MARKAL Georgia, which was revised and updated by EC-LEDS project.

During the reporting period, EC-LEDS extended its activity with the government bodies and alongside the ministries, the main stakeholders of the LEDS process, worked intensively with Tbilisi City Hall. EC-LEDS provided consultancy services to the municipality officials in the field of clean transportation.

The LEDS Advisor had a meeting at Tbilisi City Hall with the Head of Economic Service of Tbilisi Municipality and the Head and the staff of the Transport department. The LEDS Advisor informed the officials of the Tbilisi City Hall about the LEDS findings related to the emissions from the transport sector and focused on the emissions related to Tbilisi municipality transport. The parties discussed the possibilities of introducing alternative, renewable, eco-friendly biofuel for the municipality transport fleet as a strong mitigation option.

EC-LEDS provided additional assistance to the Ministry of Energy. The LEDS Advisor met with the Head of Renewable Energy(RE)/Energy Efficiency(EE) Department of the Ministry of Energy. He made an overview and analyses of the new amendment to the regulation by Georgian National Energy Regulation Committee (GNERC) related to mandatory connection of electricity generation sources under 100 kW to the national grid.

IV. Advisory assistance to GOG

The CC office was regularly receiving updates on the MARKAL Georgia development and detailed clarifications on main findings and analysis results from EC-LEDS; the CC office also needed EC-LEDS assistance for preparing the information and materials for major international events in the field of Climate Change and the related mitigation options.

EC-LEDS worked with the CC office staff on the analysis of energy consumption and related emissions from the building sector of Georgia; discussed the main obstacles against practical application of the measures designed for implementation of energy efficient rehabilitation to residential and commercial sectors. The EC-LEDS advisor worked together with the staff of the CC Office of the MoENRP on a regular basis to analyze the mitigation options in the transport sector of Georgia; he provided the ministry staff with the information and calculations related to alternative, renewable biofuels based on local bio resources, which can gradually replace fossil fuels in the transport sector.

The EC-LEDS advisor assisted the GoG and arranged a meeting with the team of Japanese electrical engineering company, Fuji Furukawa, which is the main contractor of the Japan – Georgia Intergovernmental agreement on introducing clean electricity by using solar photovoltaic systems. At the request of the Ministry of Economy, the LEDS advisor provided information on electricity generation, transmission, and distribution systems in Georgia and Tbilisi in particular, and analyzed the country's energy balance; the representatives of the Japanese company also received information on development and progress of LEDS project in Georgia.

V. Ensure involvements in international projects, trainings, and programs

During quarter three, EC-LEDS participated in the following seminars and workshops:

- EC-LEDS participated in the seminar dedicated to biofuel development in Georgia. The seminar was organized by Ilia State University and sponsored by the embassy of the USA in Georgia. The project advisor made a presentation on the theoretical and practical achievement related to biodiesel production and practical testing as alternative renewable eco-friendly fuel in Georgia.

- The LEDS Advisor participated in the international seminar arranged by the Faculty of Architect and Buildings of the Tbilisi Technical University and Ilia State University. The architects and developers were interested in the LEDS process and its influence on the building sector. The advisor provided detailed information about the strategies in the building sector related to low emissions development and energy efficient buildings.
- The LEDS Advisor participated in the theoretical and practical training organized under the project of the Japanese government's project "The Project for Introduction of Clean Energy by Solar Electricity Generation System in Georgia", dedicated to the development of alternative, renewable energy resources in Georgia.
- The LEDS Advisor participated in a program to evaluate and identify the most effective energy efficient equipment and energy solutions and implement them in the building Sector of Georgia; the program was sponsored by the Japan International Cooperation Agency (JICA).

D. PROJECT ADMINISTRATION

During quarter three, EC-LEDS completed the following project administration tasks:

1. Requested prior written approval from it's Agreement Officer (AO) on the procurement of equipment under the EC-LEDS partial grants programs on June 2, 2016, and received an approval on June 7, 2016;
2. Submitted technical and cost application on EC-LEDS additional activities and ceiling increase on June 15th to Ms. Rebecca White, Regional Contracting and Agreement Officer. EC-LEDS received comments and questions from USAID on June 29, 2016 and is currently preparing responses.

Lessons Learned

The following items were lessons learned during this quarter:

- The GoG needs more advisory services, specifically while preparing for the major international events;
- Additional meetings and trainings ensure better project results.
- The sectorial SWGs will work more efficiently when they receive strict directions from the relevant ministries;
- The EC-LEDS project goes on much more successfully when the communication and cooperation with the stakeholders are even more intensive than planned earlier.

E. ENVIRONMENTAL PROTECTION ACTIVITIES

Environmental Review Checklist document for "Heidelberg Cement Georgia CM3 Research and Renovation" project in Rustavi has been finalized and submitted to USAID for approval. On April 27,

2016, an official approval and clearance for the above-mentioned Environmental Review Checklist document was received. Finalization of the second round of sub-grant projects related Activity-Specific Environmental Mitigation and Monitoring plans are in progress. Final stipulation of the second round sub-grant projects related Activity-Specific Environmental Mitigation and Monitoring commitments will go in parallel with finalization of sub-grant projects related technical scope and specifications. During the current reporting period, a series of site-visits to the sub-grant project locations were conducted.

F. CROSS-CUTTING ACTIVITIES

i. National Public Communications and Outreach

In the reporting period, EC-LEDS produced a flyer about solar energy and technologies for distribution during the EC-LEDS CBSM pilot campaign in Kutaisi.

EC-LEDS produced the Quarterly Newsletter Spring 2016 for distribution during EC-LEDS events and via e-mail.

Photo 1. EC-LEDS promotional flyer

During this reporting period, the EC-LEDS EE public service announcements (PSA) were aired on the National TV channels Imedi TV and Channel 1.

Photo 2. EC-LEDS PSA screenshot

Photo 3. EC-LEDS PSA screenshot

In the reporting period, EC-LEDS held a presentation of the project "Warm Elderly – Energy Efficiency Measures for Tbilisi Elders' Boarding House". The demonstration project presented energy efficient and renewable energy measures with deployment of energy efficient and renewable energy solutions, including, autonomous heating and hot water supply system using natural gas combined with a solar thermal system, the energy efficiency upgrade of the most vulnerable areas of the building envelope and the replacement of incandescent light bulbs with compact fluorescent lamps (CFL). The project was implemented by the Energy Efficiency Center Georgia, with the co-financing from BP Exploration (Caspian Sea) Ltd. within its project "Renewable Energy & Energy Efficiency New Project", Tbilisi City Hall, State Fund for Protection and Assistance of (Statutory) Victims of Human Trafficking, Charity Foundation Iavnana and EC-LEDS. The event was highlighted by media.

Photo 4. Guests observing project activities

On June 30, EC-LEDS held two presentations in Kutaisi; (1) launch of EC-LEDS CBSM pilot campaign and (2) presentation of Renewable Energy Project at Kutaisi Torpedo Sport Base.

EC-LEDS supported the Kutaisi Municipality in application of Renewable Energy technology as part of EC-LEDS Community-Based Social Marketing campaign (CBSM). CBSM is a complimentary behavior change approach to EC-LEDS information-intensive outreach campaigns. In contrast to more conventional awareness-building approaches, CBSM is extremely effective at bringing about targeted behavior change in communities and has met with widespread energy efficiency, conservation and environmental communications success.

The project produced a Solar Tree (daisy-shaped), which was installed in the energy efficient public park in the center of Kutaisi. The newly reconstructed park was a result of the Kutaisi City Hall's endeavor to fulfil commitments taken within the Covenant of Mayors, as well as accomplishment of goals prescribed in Sustainable Energy Action Plan.

The presentation of the Solar Tree took place in Kutaisi Public Park on Rustaveli Avenue. Guests from Kutaisi City Hall, USAID/Caucasus, Winrock International, BP-Georgia and Energy Efficiency Center observed the operation of renewable energy technology as a clean and safe energy for a healthy environment.

Photo 5. Presentation of the Solar Tree in Kutaisi Public Park

On the same day, at 12:00 EC-LEDS, BP and Energy Efficiency Center held a presentation of Renewable Energy Project at Kutaisi Torpedo Sport Base. The event demonstrated energy efficiency and renewable energy solutions implemented at the sport base, including procurement and installation of a 2000L capacity solar water heating system, connection of the local grid to PV system, and replacement of existing incandescent light bulbs with 350 compact fluorescent lamps. "Low Emission Development for Sport – Kutaisi Torpedo vs CO_2" was implemented by Energy Efficiency Center Georgia (EEC) with co-financing from BP Exploration (Caspian Sea) Ltd. within its project "Renewable Energy & Energy Efficiency New Project", Kutaisi City Hall, and EC-LEDS. Both events were highlighted by local media.

Photo 6. Guests observing project activities

Photo 7. Project implementers presenting project activities

II. People with Disabilities (PWD), Youth, and Gender

In the reporting period, EC-LEDS held the Youth EE Event in Rustavi. The purpose of the event was to involve youth in energy efficiency, contributing to climate change mitigation.

The students were selected from "Momavlis Taoba" (Future Generation) Civic Educational program partner schools from 9th to 11th grades, in collaboration with the NGO SIQA - Georgian Association of Educational Initiatives. The "Momavlis Taoba" (MT) program, funded by USAID, is being implemented in Georgia by PH International and is supported by the Ministry of Education and Science of Georgia (MES).

During the event, students were given a presentation entitled, "How to Save Energy" followed by a contest, "Energy Efficiency Is a Smart Choice" to demonstrate the EE skills acquired at the seminar. The seminar was conducted by the Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor. Professor spoke about the importance of energy efficiency, ways of saving energy, energy audits, energy efficiency in the residential sector, energy efficient technologies, simple tips to save energy at home, energy efficient appliances, renewable energies, energy efficient/renewable energy projects implemented under donor support, energy efficiency, and climate change. The winners were awarded medals, and all students were given participation certificates. The event took place in the Rustavi Civic Engagement Center.

Photo 8. EC-LEDS promotional items

Photo 5. EC-LEDS Certificate

III. Cooperation with other USAID programs

EC-LEDS established good communication and cooperation with other USAID sponsored programs, including G4G, Waste Management Technologies in Regions, as well as the EU funded programs - ClimaEast, UNDP, and GIZ.

EC-LEDS continued cooperation with USAID's "Momavlis Taoba" (Future Generation) Program implemented by PH International and supported by the Ministry of Education and Science of Georgia (MES).

I. YEAR THREE WORK PLAN: DELIVERABLES SUBMITTED IN YEAR THREE QUARTER THREE

Component	Deliverable/Product	Date Submitted
M&E	GIS Data Collection Template - Year 3, Quarter 2	25-Apr-16
M&E	Open Data Policy Datasets	6-Apr-16
All	Quarterly Progress Report Jan-Mar 2016	25-Apr-16
Component 1	Workshop Report - "Monitoring of implementation of Sustainable Energy Action Plans (Based on Example of Monitoring Report of Tbilisi Sustainable Energy Action Plan (SEAP))	25-Apr-16
Component 1	Sustainable Energy Action Plan for Akhaltsikhe (Eng)	25-Apr-16
Environmental Compliance	Environmental Review Checklist for Identifying Potential Environmental Impacts of Project Activities and Processes for Heidelberg Cement Georgia CM3 Research and Renovation in Rustavi	26-Apr-16
Component 3	Updated MARKAL-Georgia BAU Scenario	28-Apr-16
Component 3	An updated version of the "Updated MARKAL-Georgia BAU Scenario"	11-May-16
Component 1	Monitoring Report on the Implementation of City of Tbilisi Sustainable Energy Action Plan	18-May-16
Component 1	Sustainable Energy Action Plan for Bolnisi (Eng)	31-May-16
Component 1	Sustainable Energy Action Plan for Tbilisi (Eng)	31-May-16
Component 1	Tbilisi Project Proposal (Eng)	31-May-16
Component 1	Project Proposal for Bolnisi (Eng)	31-May-16
Component 3	MARKAL-Georgia Mitigation Measures Report	31-May-16

Component 3	Overview of Each Sector Considered in MARKAL (Energy, Transport, Industry, Building) Developed Including Trend Analysis	31-May-16
Component 1	Sustainable Energy and Climate Action Plan of the Municipality of Telavi Community (Geo)	29-Jun-16
Public Outreach	Report on EC-LEDS Youth Energy Efficiency Events Dec 2015_Apr 2016	29-Jun-16

The indicators with year three targets include outcome indicators OC2; OC3; OC4 OC5; OC6; OC7; OC8 and output indicators OP1, OP2, OP4, OP5, OP6, OP7, OP8, OP10, OP11, OP13, OP14, OP15, OP17, OP18, OP22. During quarter three of year three, progress was demonstrated in most of the indicators and some of them even exceeded defined targets. Other activities in all components and cross-cutting issues are being carried out as planned and measurable results will be documented as they are achieved.

During this reporting period, all datasets were submitted for AOR review and intellectual outputs elaborated in Y3Q3 were uploaded on Development Experience Clearinghouse (DEC). In addition, GIS Data Collection Spreadsheet was sent to USAID. INDICATOR TITLE: **Quantity of greenhouse gas (GHG) emissions, measured in metric tons of CO_2 equivalent (CO_{2e}), reduced or sequestered as a result of USG assistance (OC 2)**

UNIT: Metric tons of CO_2	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
Metric tons of CO_2	*0*	*20,000*	*0*	*43,000*		*55,000*		*236,000*	

INDICATOR TITLE: **Energy saved due to energy efficiency/conservation projects as a result of USG assistance (OC 3)**					
UNIT: GW/h_e	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
GW/h_e	*0*	*20,000*		*42,000*		*75,000*		*315,000*	

INDICATOR TITLE: **Number of private sector clean energy investments (OC 4)**					
UNIT: USD	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
	Tbilisi, Georgia	*EBRD Investment in Bust Fleet in Tbilisi*	*June, 2016*		*34mln USD*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
USDMillion	*0*	*0*	*0*	*4.0*	3.36	*3.64*	*37.36*	*14*	

INDICATOR TITLE: **Number of local organizations positioned to receive USG funding and implement USG projects as a result of EC-LEDS assistance (OC 5)**					
UNIT:	*DISAGGREGATE BY: Region or Municipality*				
USD	*Geographic Location*	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
USD Million	*0*	*0*	*0*	*0*		*1*		*1*	

INDICATOR TITLE: **Percentage of individuals reached by the public awareness campaign who take at least one energy saving action (OC 6)**					
UNIT: % of individuals	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
	0	*0*	*0*			*10%*		*10%*	

INDICATOR TITLE: **Expected lifetime energy savings from energy efficiency or energy conservation, as a result of USG assistance (OC 7)**					
UNIT: Gigajoules (GJ)	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
	Rustavi *Rustavi* *Telavi*	*Low Emission Demonstration Project for Supporting of CoM Signatory Rustavi City in the Implementation of SEAP in Rustavi* *Heidelberg Cement Georgia CM3 Research and Renovation (Rustavi)* *Green Recreation Zone in Telavi City*	*June, 2016*		*In total, 23, 541.12GJ*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
	0	*0*	*0*	19 929 600	19 929 600	44,583,406.65	**23,541.12**		

INDICATOR TITLE: **Projected greenhouse gas emissions reduced or avoided through 2030 from adopted laws, policies, regulations, or technologies related to clean energy as supported by USG assistance (OC 8)**					
UNIT: Metric tons of CO_2	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
	Rustavi *Rustavi* *Telavi*	*Low Emission Demonstration Project for Supporting of CoM Signatory Rustavi City in the Implementation of SEAP in Rustavi* *Heidelberg Cement Georgia CM3 Research and Renovation (Rustavi)* *Green Recreation Zone in Telavi City*	*June, 2016*		*In total, 27216 TCO2e*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
	0	*0*	*0*	1,699,549.7	1,699,549.7	3,237,402.00	*27216*		

INDICATOR TITLE: **Number of low emissions development plans developed and/or implemented as a result of USG assistance (LEDS, SEAP, other) (OP 1)**					
UNIT: No. of Plans developed	*DISAGGREGATE BY: Phase of implementation (developed, implemented)*				
	Geographic Location	*Event*	*Date*		*total*
	Bolnisi *Telavi*	*SEAP for Bolinisi Municipality* *SECAP Telavi Temi*	*January-March, 2016* *April-June, 2016*		*1* *1*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Plans developed	*0*	*3*	*3*	*4*	*4*	*3*	*2*	*10*	

INDICATOR TITLE **Number of Sustainable Energy Offices (SEOs) or shared Sustainable Energy Resource Centers established in participating municipalities(OP 2)**					
UNIT: No. of Sustainable Energy Offices/ Sustainable Energy Resource Centers established	*DISAGGREGATE BY: New offices, ongoing offices*				
	Geographic Location	*Event*	*Date*		*total*
	Akhaltsikhet	*SEO in Akhaltsikhet*	*June, 2016*		*1*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Offices created	*0*	*0*	*0*	*3*	*0*	*2*	*1*	*5*	

INDICATOR TITLE: **Number of stakeholders using climate information in their decision making as a result of USG assistance (OP 4)**					
UNIT: Number of Stakeholders	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Stakeholders	*0*	*8*	*12*	*6*	*8*	*2*		*16*	

INDICATOR TITLE:**Number of laws, policies, strategies, plans, agreements or regulations addressing climate change mitigation officially proposed, adopted, or implemented as a result of USG assistance (OP 5)**					
UNIT: Number of Laws, Policies, Strategies	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Laws, Policies, Strategies	*0*	*1 proposed*	*1 proposed*	*1 proposed*		*1 adopted*		*1 adopted* *2 proposed*	

INDICATOR TITLE: **Number of climate change mitigation tools, technologies or methodologies developed, tested and/or adopted as a result of USG assistance (OP 6)**					
UNIT: Number of Tools	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
					1
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Tools	*0*	*1*	*2*	*2*	*2*	*2*		*5*	

INDICATOR TITLE: **Number of households/ business/ public institutions implementing energy efficiency measures as a result of USG assistance (OP 7)**					
UNIT: No. of electricity consumers implementing energy efficiency measures	*DISAGGREGATE BY: None HH, Businesses, Institutions*				
	Geographic Location	*Event*	*Date*		*total*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Households	*0*	*0*	*0*	*500* *2*		*1000* *8*		*1500* *10*	
No. of businesses	*0*								
No. of institutions	*0*			*2*		*8*		*10*	

INDICATOR TITLE: **Number of climate change mitigation projects implemented as a result of USG assistance (OP 8)**					
UNIT: No. of climate change mitigation projects	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
	For all municipalities	*Kutaisi "Torpedo" –" Installation of Solar Thermal System and Lighting"*			
		Tbilisi Elderly house–" Installation of Solar Thermal System and Lighting"			*2*
		Street Lighting in Batumi			
	Batumi				*1*
		Public Park in Batumi	*June, 2016*		*1*
	Batumi	*Street Lighting in Zugdidi*			*1*
	Zugdidi	*Low Emission Demonstration Project for Supporting of CoM Signatory Rustavi City in the Implementation of SEAP in Rustavi*	*June, 2016*		*1*
	Rustavi	*Heidelberg Cement Georgia CM3 Research and Renovation (Rustavi)*	*June, 2016*		*1*
	Rustavi	*Green Recreation Zone in Telavi City*			*1*
	Telavi				

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Projects	*0*	*0*	*0*	*5*	*2*	*15*	*8*	*20*	

INDICATOR TITLE: **Number of individuals reached through outreach campaigns (OP 10)**					
UNIT: Number of Individuals	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
	Village Misaktsieli, Georgia	*Youth EE Event Presentation "How to Save Energy"*	*December 15, 2015*		***22 female, 21 male (43 total)***
		Contest "Energy Efficiency Is A Smart Choice"	*October-December, 2015*		***2585 likes on facebook***
		People reached through EC-LEDS Facebook			***24 female, 17 male (total 41)***
	Mtskheta, Georgia	*Youth EE Event "How to Save Energy -Contest Energy"- Contest Efficiency Is A Smart Choice"*	*March 23, 2016*		***3230 likes on facebook***
		People reached through EC-LEDS Facebook	*January-March, 2016*		
	Rustavi, Georgia	*Youth EE Event "Seminar How To Save Energy*	*April, 2016*		***13 female, 21 male (34 total)***
		Contest Energy Efficiency Is A Smart Choice"			

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3 (Q1+Q2+Q3))*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Individuals	*0*	*250,000*	*254,157*	*500,000*	*264,047*	*250,000*	*254157*	*1 million*	

INDICATOR TITLE: **Number of USG-supported training or activities that contribute to building the EE knowledge and skills in the GOG, Municipalities, industry and other stakeholders (OP 11)**					
UNIT:	*DISAGGREGATE BY: None*				
Number of Training activities	*Geographic Location*	*Event*	*Date*		*total*
	Village Misaktsieli	*Youth EE Event Presentation "How to Save Energy"*	December 15, 2015		1
	Bolnisi	Meeting with local experts and municipality staff on Covenant of Mayors and SEAPs	November 20, 2015		1
	Tbilisi	Preparation of project proposals for the GHGs mitigation measures to be implemented in the sectors considered in SEAPs	November 27, 2015		I
	Telavi	*Meeting with Deputy Governor and coordinators on Covenant of Mayors and SEAPs*	December 2, 2015		1
	Bolnisi	*Meeting with local farmers and staff of Bolnisi Municipality*	February 19, 2016		1
	Telavi	*Meeting with staff of Telavi Municipality*	March 3, 2016		1
	Tbilisi	*Training on SEAP Monitoring*	March 31, 2016		1
	Mtskheta	*Youth EE Event Presentation "How to Save Energy"*	March 23, 2016		1
	Rustavi	*Youth EE Event "Seminar How To Save Energy Contest Energy Efficiency Is A Smart Choice"*	April 20, 2016		1
	Telavi	*The 1st working meeting with the representatives of Telavi Municipality to discuss and agree the mitigation measures for transport and building sectors for TELAVI SECAP document*	April 4, 2016		1
	Telavi	*The 2st working meeting with the representatives of Telavi Municipality to discuss and agree the mitigation measures for*			

INDICATOR TITLE: **Number of USG-supported training or activities that contribute to building the EE knowledge and skills in the GOG, Municipalities, industry and other stakeholders (OP 11)**						
		waste, greening and street lighting sectors for TELAVI SECAP document	April 22, 2016			1
	Telavi	*The final working meeting with the representatives of Telavi Municipality to discuss and agree technical details, format and measures for TELAVI SECAP document*	May 23, 2016			1
	Mtskheta	*The working meeting with the Mayor of Mtskheta and SEAP coordinator to give general information about the CoM, SEAP elaboration process and technical assistance*	April 12, 2016			1
	Mtskheta	*The working meeting with the SEAP coordinator and local expert to discuss the details of energy audit and collection of other relevant information for SEAP.*	May 10, 2016			1
	Tbilisi	*The transport sub-working group meeting on transport chapter for LEDS document*	April 8, 2016			1
	Tbilisi	*The energy sub-working group meeting on transport chapter for LEDS document*	April 13, 2016			1
	Tbilisi	*The industry sub-working group meeting on transport chapter for LEDS document*	April 18, 2016			1
	Tbilisi	*The building sub-working group meeting on transport chapter for LEDS document*	May18, 2016			1

Results:

Additional Criteria		*Y1*		*Y2*		*Y3 (Q1+Q2+Q3))*		*End of Project*	
If other criteria are important, add lines for setting targets and tracking	***Baseline***	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Training activities	*0*	*6*	*10*	*30*	*22*	*14*	19	*50*	

INDICATOR TITLE: **Value of grants disbursed as a result of USG assistance for scientific research and energy efficiency pilot projects (OP 13)**										
UNIT:	*DISAGGREGATE BY: None*									
Value of grants distributed	*Geographic Location*	*Event*				*Date*		*Total*		
	For all municipalities	*Kutaisi "Torpedo" –" Installation of Solar Thermal System and Lighting"*								
		Tbilisi Elderly house–" Installation of Solar Thermal System and Lighting"								
		Street Lighting in Batumi								
	Batumi	*Public Park in Batumi*				*June, 2016*				
	Batumi	*Street Lighting in Zugdidi*								
	Zugdidi	*Low Emission Demonstration Project for Supporting of CoM Signatory Rustavi City in the Implementation of SEAP in Rustavi*				*June, 2016*				
	Rustavi	*Heidelberg Cement Georgia CM3 Research and Renovation (Rustavi)*								
	Rustavi	*Green Recreation Zone in Telavi City*				*June, 2016*				
Results:										
Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*		
		Target	*Achieved*	*Target*	*Achieved*	*Target*		*Achieved*	*Target*	*Achieved*
Value of grants	*0*	*0*	*0*	*300,000*	*$175,012*	*324,988*		*134,447.68*	*500,000*	

INDICATOR TITLE: **Number of promotional plans and campaigns implemented to increase awareness of citizens about energy efficiency (OP 14)**					
UNIT: No. of Plans	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Plans	*0*	*2*	*2 (Implementation Ongoing)*	*2*	*2*	*2*	*2*	*2*	*2*

INDICATOR TITLE: **Number of beneficiaries receiving improved infrastructure services due to USG assistance (OP 15)**					
UNIT: No. of beneficiaries receiving improved infrastructure services	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Beneficiaries	*0*	*0*	*0*	*1*		*2*		*3*	

INDICATOR TITLE: **Number of MRV plans developed to track impact of SEAPs implementation(OP 17)**					
Unit:	*Disaggregate by: None*				
No. of Plans	*Geographic Location*	*Event*	*date*		*total*
	Bolnisi *Telavi Community*	*MRV Plan or Bolnisi* *MRV Plan for Telavi Temi*	*January-March, 2016* *April-June, 2016*		*1* *1*

Results:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2,*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Plans	*0*	*4*	*4*	*3*	*3*	*3*	*2*	*10*	

INDICATOR TITLE: **Number of individuals at national and local level trained in climate change as a result of USG assistance (OP18)**					
UNIT:	*DISAGGREGATE BY: None*				
No. of Individuals	*Geographic Location*	*Event*	*Date*		*total*
	Tbilisi	*On-job training on elaboration of Markal for Analytical Department of Ministry of Energy and Environment*	*October-December, 2015*		*5 (2 females, 3 males)*
	Tbilisi	*Training on Preparation of project proposals* for the *GHGs mitigation measures to be implemented in the sectors considered in SEAPs*	*November 27, 2015*		*23 (12 females, 11 males)*
	Tbilisi	*Training on SEAP Monitoring*	*March 31, 2016*		*11 (4 females, 7 males)*
	Tbilisi	*On-job training on Markal-discussion on renewable model*	*January-March, 2016*		*5 (2 females, 3 males)*
	Telavi	*The 1st working meeting with the representatives of Telavi Municipality to discuss and agree the mitigation measures for transport and building sectors for TELAVI SECAP document*	April 4, 2016		*4 (1 female, 3 males)*
	Telavi	*The 2st working meeting with the representatives of Telavi Municipality to discuss and agree the mitigation measures for waste, greening and street lighting sectors for TELAVI SECAP document*	April 22, 2016		*4 (1 female, 3 males)*
	Telavi	*The final working meeting with the representatives of Telavi Municipality to discuss and agree technical details, format and measures for TELAVI SECAP document*	May 23, 2016		*4 (1 female, 3 males)*
	Mtskheta	*The working meeting with the Mayor of Mtskheta and SEAP coordinator to give general information about the CoM, SEAP elaboration process and technical*	April 12, 2016		*2 (1 female, 1 male)*

	Mtskheta	*assistance*	May 10, 2016	*2 (1 female, 1 male)*
	Tbilisi	*The working meeting with the SEAP coordinator and local expert to discuss the details of energy audit and collection of other relevant information for SEAP.*	April 8, 2016	*15 (5 female, 10 male)*
	Tbilisi	*The transport sub-working group meeting on transport chapter for LEDS document*	April 13, 2016	*11 (5 female, 6 male)*
	Tbilisi	*The energy sub-working group meeting on transport chapter for LEDS document*	April 18, 2016	*6 (2 female, 4 males)*
	Tbilisi	*The industry sub-working group meeting on transport chapter for LEDS document*	May18, 2016	*14 (4 females, 9 males)*
	Rustavi	*Youth EE Event "Seminar How To Save Energy Contest Energy Efficiency Is A Smart Choice"*	April 20, 2016	*34 (13 females, 21 males)*

esults:

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	***Baseline***	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of Individuals	*0*	*10*	*67*	*40*	*171*	*20*	*140*	*70*	

INDICATOR TITLE: **Number of decisions made by LEDS steering committee or involved agencies using analysis based on MARKAL or other appropriate tools (OP22)**					
UNIT: Number of decisions	*DISAGGREGATE BY: None*				
	Geographic Location	*Event*	*Date*		*total*
Results:					

Additional Criteria *If other criteria are important, add lines for setting targets and tracking*	**Baseline**	*Y1*		*Y2*		*Y3*		*End of Project*	
		Target	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*	*Target*	*Achieved*
No. of decisions		*0*	*0*	*2*		*2*		*4*	

ANNEX I: SCHEDULE OF PLANNED FUTURE EVENTS

A. COMPONENT ONE

Continue technical support in the development of SEAPs and project proposals for the remaining two municipalities

Continue providing capacity building for the Municipality representatives by conducting

1. Workshops (2)
2. On the job trainings (regular)
3. Technical tools (final version of muni-EIPMP)

B. COMPONENT TWO

Task Completed

C. COMPONENT THREE

Technical assistance:

1. Analysis of mitigation options
2. Development of MARKAL-Georgia Guidebook
3. Development of four LEDS chapters on energy sector, buildings, transport, and industry facilitation of LEDS discussions.
4. Facilitation in organizing LEDS steering committee meetings, sub-working groups meetings, and experts groups meetings to discuss LEDS document chapters;
5. Training of Analytic Department of the Ministry of Energy for policy analysis by using MARKAL-Georgia

D. PUBLIC OUTREACH

Airing EC-LEDS EE PSAs will continue on National TV channels. EC-LEDS Youth EE Events will take place in April and June 2016 in Rustavi and Kutaisi municipalities.

CBSM pilot will be launched in Kutaisi in the beginning of June, 2016 (date of launch will be confirmed by Kutaisi Municipality in mid-May).

Table 2. Upcoming Events for year three, quarter four

Component	Event	Date/Location
Public Outreach	Information Session for PWD	September, 2016 (location will be confirmed in August, 2016)
Public Outreach	Youth EE Event	September, 2016 (location will be confirmed in August, 2016)
Public Outreach	CBSM Zugdidi Pilot	September, 2016 (launch date will be confirmed in August, 2016)

E. ENVIRONMENTAL COMPLIANCE

EC-LEDS program will continue finalization of second round sub-grant projects related Activity-Specific Environmental Mitigation and Monitoring documentation in accordance with USAID environmental compliance procedures and approved EC-LEDS PEA.

ANNEX II: QUARTER FOUR PLANNED DELIVERABLES AND PRODUCTS

A. COMPONENT ONE

- Mtskheta City SEAP with MRV plan and Project Proposal
- English version of Telavi Municipality SEAP and MRV Plan
- Workshop Reports Establishment of SEO or SEO functions integrated in 4 Municipalities

B. COMPONENT TWO

- Task Completed

C. COMPONENT THREE

- Chapters of each sector considered in MARKAL(Energy, Transport, Industry, Building) developed for EC-LEDS Document; MARKAL- Georgia guidebook is English.

D. COMMUNICATIONS AND OUTREACH

As part of the EC-LEDS outreach activities, the program will produce media coverage reports for upcoming events, Report on Youth EE Events and Report on Information Session for PWD where applicable. In the framework of CBSM campaign, EC-LEDS will print flyer on solar energy. The Communication plans for the SEAPs will be prepared. EC-LEDS will produce Report on findings of CBSM pilot in Kutaisi Municipality.

E. MONITORING AND EVALUATION

Intellectual outputs will be uploaded to Development Experience Clearing house.

F. ENVIRONMENTAL COMPLIANCE

Following the scope of 22 CFR 216 Environmental Compliance Procedures and approved Programmatic Environmental Assessment (PEA) document, EC-LEDS will analyze selected sub-grant activities against specific impact factors, including: the character of proposed actions, the type of structural measures, and whether the proposed structural actions, their impacts, and mitigation measures are considered in the PEA defined Environmental Monitoring and Mitigation Plan (EMMPs). Depending on the project -specific individual assessments, either "Activity-Specific EMMP and/or Environmental Review Checklists (ERCs)" documents will be produced. Right after the completion of the project related activities, "Record of Compliance with the EMMP" document will be submitted to USAID.

ANNEX III: REPORT ON EC-LEDS YOUTH ENERGY EFFICIENCY EVENT

ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

COOPERATIVE AGREEMENT NO. 114-A-13-00008

REPORT ON EC-LEDS YOUTH ENERGY EFFICIENCY EVENT IN RUSTAVI

April, 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International Georgia.

EXECUTIVE SUMMARY

The EC-LEDS Youth Energy Efficiency Event was held in Rustavi on April 20th, 2016. Participants of the events were youth in the 9th-12th grades selected from the "Momavlis Taoba" (Future Generation) Program. The purpose of the event was to involve youth in energy efficiency, contributing to climate change mitigation.

This report presents a description, the list of participants, and an overview of materials used for the event.

YOUTH EE EVENT

PARTICIPANTS

The EC-LEDS Youth Energy Efficiency Event was attended by a total of 34 youth in the 9th to 12th grades from Rustavi and Gardabani schools (13 females, 21 males).

Full lists of participants are provided in **Attachment A**.

CONTENT

The EC-LEDS Youth Energy Efficiency Events were 2.5 hours long, of which the first two hours were dedicated to "How to Save Energy". The seminar covered the following topics:

- **What is Energy Efficiency**: A brief introduction to energy efficiency and explanation of energy terms.
- **Ways to Save Energy:** Various ways to save energy and the energy audit.
- **Information Campaigns**: A brief description of advertising and information campaigns about energy efficiency.
- **The Importance of Energy Efficiency**: The importance of energy efficiency with regard to the rational use of energy, energy security of the state, and the importance of energy efficiency for Georgia.
- **Energy Efficiency in the Residential Sector**: How to save energy at home.
- **Energy Efficient Technologies**: An introduction to technologies and appliances.
- **Renewable Energies**: Renewable energy sources were discussed with examples of technologies and how to use them.
- **Energy Efficient Projects**: Some energy efficient projects supported by donor organizations.

In the second part of the event the students participated in contests and given simple EE tests covering the topics of the session. The top three winners were awarded with medals. All students and teachers were awarded with participation certificates. The contest questions are provided in **Annex B**.

PRESENTER

The EC-LEDS Youth energy efficiency events were conducted by Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor Gia Arabidze. The seminar topics and presentation were developed specifically for EC-LEDS Youth Energy Efficiency Event by presenter in cooperation with EC-LEDS staff.

VENUE, TIMING AND LOGISTICS

The EC-LEDS Youth Energy Efficiency Event was held in the Rustavi Civic Engagement Center (22, Kostava street, Rustavi).

The materials were in Georgian and the events were free for all participants.

The event was organized by EC-LEDS in collaboration with of PH International within the framework of the USAID-supported "Momavlis Taoba" (Future Generation) Program.

CONCLUSION

Youth participated actively, with questions and lively discussions. All participants noted the importance of organizing similar events, as such meetings contributed to their awareness of the subjects. They were satisfied with all aspects of the training and confirmed that the presentations met their expectations. After the events, students made commitments to conduct simple home energy audits and spread the word about energy saving among their families and schools.

ATTACHMENT B: CONTEST QUESTIONNAIRE

Contest
"Energy Efficiency Is A Smart Choice"

Name, Surname _____
City _____
School #_____

Please select the correct answer:

1. Location of a refrigerator near heating devices affects the efficiency of its operation:
a. Positively _____
b. Negatively _____

2. A TV set in stand-by mode consumes electricity:
a. Yes _____
b. No _____

3. What is the impact of hot dishes placed in the refrigerator?
a. Reduces energy consumption of the appliance _____
b. Increases energy consumption of the appliance _____

4. Is it more efficient to read a book by the window to use daylight efficiently?
a. Yes _____
b. No _____

5. When using water heater tank (e.g. Thermex) should the regulator be set at the maximum position?
a. Yes _____
b. No _____

6. In order to maintain warmth in the room generated from fire place or wood stove, is there a need to lower or close the cover in case of their extinguishment?
a. Yes _____
b. No _____

7. 80% of consumed energy in a dwelling is consumed by:
a. Heating _____
b. Cooking _____
c .Water heating __ _____

8. Is it possible to detect a draught's direction with a candle?

a. Yes _____

b. No _____

9. Is it necessary to ensure air tightness of doors and windows to reduce energy consumption?

a. Yes _____

b. No _____

10. Can packaging tape ensure energy saving if it is fixed on both sides of a cracked window glass?

a. Yes _____

b. No _____

11. Is it more efficient to open a window frequently and for a short time to air a storage area?

a. Yes _____

b. No _____

12. When do we spend more energy: while taking a bath or a shower?

a. Bath _____

b. Shower _____

13. When cooking, can improperly selected saucepans be a cause for energy loss?

a. Yes _____

b. No _____

14. When cooking, should a pan fit the size of the burners?

a. Yes _____

b. No _____

15. A rounded bottom or wrong size of a pan prolongs cooking time by:

a. 10% _____

b. 40% _____

c 120% _____

16. Can a label fixed on home appliances help us detect the energy efficiency of an appliance?

a. Yes _____

b. No _____

17. Can we save energy if we turn the TV set off of stand-by mode?

a. No _____

b. Yes _____

18. In order to save energy one should start ironing:

a. From the lowest temperature _____

b. From the highest temperature _____

19. Is it possible to get the same light from 25 watt bulb as from 100 watt bulb?

a. Yes _____

b. No _____

20. By using modern energy efficient bulbs, we can reduce energy consumption by:

a. 15% _____

b. 60% _____

c. 100% _____

Correct Answers

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
b	a	b	a	b	a	a	a	a	a	a	a	a	a	b	a	a	a	a	b

ATTACHMENT C: AWARDS

Certificate

Medals

Caps, T-shirts, Pens

ANNEX III: MEDIA COVERAGE REPORT

USAID
FROM THE AMERICAN PEOPLE

WINROCK INTERNATIONAL

ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS)
CLEAN ENERGY PROGRAM

COOPERATIVE AGREEMENT NO. 114-A-13-00008

MEDIA COVERAGE REPORT

April - June, 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International Georgia

Source: **CENN**
Date: **April 21, 2016**
Title: **Energy Efficiency Is a Smart Choice**
Youth EE Event Continues in Kvemo Kartli

Students from Rustavi and Gardabani took part in the Youth Energy Efficiency Event on April 20th, 2016. The USAID-supported Enhancing Capacity for Low Emission Development Strategies (EC-LEDS) Clean Energy Program empowers youth through training on energy efficiency and renewable energy technologies. The main objective is to involve youth in energy efficiency, contributing to climate change mitigation.

The students were selected from "Momavlis Taoba" (Future Generation) Civic Educational program partner schools from 9th to 11th grades in collaboration with the NGO SIQA - Georgian Association of Educational Initiatives. The "Momavlis Taoba" (MT) program, funded by United States Agency for International Development (USAID), is being implemented in Georgia by PH International and is supported by the Ministry of Education and Science of Georgia (MES).

SIQA is a non-profit legal entity, which is productively functioning in Georgia and abroad since 1999. SIQA oriented on development of critical and creative thinking trough informal learning among society's members (age is unlimited), who's motivated to positive changes, but also contribute to introducing innovative and already approved method of studying, that a person established as an active citizen, who's oriented on self-development.

During the event, students were given a presentation "How to Save Energy" followed by a contest "Energy Efficiency Is A Smart Choice" to demonstrate the EE skills acquired at the seminar. The seminar was conducted by Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor. Professor will speak about the importance of energy efficiency, ways of saving energy, energy audit, energy efficiency in residential sector, energy efficient technologies, simple tips to save energy at home, energy efficient appliances, renewable energies, energy efficient/renewable energy projects implemented under donor support, energy efficiency and climate change. The winners were awarded medals, and all students were given participation certificates.The event took place in the Rustavi Civic Engagement Center (22, Kostava street) at 14:00.

The EC-LEDS Clean Energy Program is supported by USAID and implemented by Winrock International Georgia. Through this project, USAID supports Georgia's efforts to increase climate change mitigation through energy efficiency and clean energy activities, and enable more responsible management and development of Georgia's natural endowments.

Source: **Kutaisi Municipality City Council Facebook Page**
Date: **June 30, 2016**
Title: **Solar Daisy in Kutaisi**

Chairman of Kutaisi City Council, Deputy Chairmen and Kutaisi Mayor attended the opening ceremony of Energy Efficient Public Park in the central-historical district of the city.

The park is equipped with benches and solar lighting. Among trees and plants, visitors of the park can observe a daisy-shaped "Solar Tree".

The Solar Tree is equipped with various types of charging plugs attached to the stem. The system of the Solar Tree is made up of three main parts: solar panels, charging controller and accumulator. Solar panels convert solar energy into the electric energy, which is supplied to the accumulator through the charging controller, where the energy is accumulated. Presentation of the event was attended by project implementers, as well, among them, representatives of Economic Development Department of Kutaisi City Hall, USAID, Winrock International and Energy Efficiency Center - Georgia.

Source: **Kutaisi City Hall Press Center**
Date: **June 30, 2016**
Title: **Energy Efficient Public Park in Kutaisi**

The first "Solar Daisy" is installed in Georgia, in Kutaisi. The idea of the Solar Tree was initiated by Economic Development Service at Kutaisi City Hall. Kutaisi Mayor, Chairman of City Council, representatives of the local self-governance, USAID, Winrock International and NGO Energy Efficiency Center – Georgia observed the renovated Park. The so-called "Solar Daisy" is equipped with USB charging points. The park is equipped with benches and solar lighting. The given technological installation works on solar energy and is used as an autonomous charging point promoting the idea of living in a cleaner environment. After the opening of Kutaisi Touristic Information Center in the park, it will be equipped with free WI-FI and electronic library.

Source: **psnews.ge**
Date: **June 30, 2016**
Title: **Solar Daisy in Kutaisi**

The first "Solar Daisy" is installed in Georgia, in Kutaisi. The idea of the Solar Tree was initiated by Economic Development Service at Kutaisi City Hall. Kutaisi Mayor, Chairman of City Council, representatives of the local self-governance, USAID, Winrock International and NGO Energy Efficiency Center – Georgia observed the renovated Park. The so-called "Solar Daisy" is equipped with USB charging points. The park is equipped with benches and solar lighting. The given technological installation works on solar energy and is used as an autonomous charging point promoting the idea of living in a cleaner environment. After the opening of Kutaisi Touristic Information Center in the park, it will be equipped with free WI-FI and electronic library.

"მზის გვირილა" ქუთაისში

2016/06/30 13:34:47

საქართველოში ,,მზის გვირილა" პირველად ქუთაისში დამონტაჟდა. იდეა ქუთაისის მერიის ეკონომიკური განვითარებისა და ადგილობრივი თვითმმართველობის ქონების მართვის სამსახურის ეკონომიკური განვითარების განყოფილებას ეკუთვნის.

სკვერი ქუთაისის მერმა შოთა მურღულიამ, საკრებულოს თავმჯდომარემ დავით დვალმა , ადგილობრივი თვითმმართველობის წარმომადგენლებმა , USAID-ის , ვინროკ ინტერნეიშენალის და არასამთავრობო ორგანიზაცია ენერგო ეფექტურობის ცენტრის წარმომადგენლებმა დაათვალიერეს.

ე.წ. „მზის გვირილა"-სთან თავმოყრილია USB დასამუხტი წერტილები , მოსასვენებელი სკამები განათებით, გამწვანება და მზის ენერგიაზე მომუშავე სანათი წერტილები. აღნიშნული ტექნოლოგიური ინსტალაცია, დღისით მასზე განთავსებული მზის ბატარეების მეშვეობით, იღებს საჭირო ენერგიას და გამოიყენება როგორც ავტონომიური დასამუხტი საშუალება, რაც უფრო მეტად ეკოლოგიურად სუფთა გარემოში ცხოვრების წესის დანერგვას შეუწყობს ხელს.

ქუთაისის ტურიზმის საინფორმაციო ცენტრის გახსნის შემდეგ სექტემბერში აღნიშნულ სკვერში ხელმისაწვდომი იქნება WI-FI, ელ. ბიბლიოთეკა და სხვადასხვა ინფორმაციის მიღება QR კოდების მეშვეობით.

Source: **kutaisipost.ge**
Date: **June 30, 2016**
Title: **Solar Daisy is Installed in Kutaisi**

Energy efficient Solar Daisy is installed on the territory of the former information center. Through fixed solar panels the solar energy is converted into electric power.

The Solar Daisy is capable of charging 60 cell phones and 30 cell phones simultaneously per day.

The Solar Daisy project is implemented by USAID-supported Enhancing Capacity for Low Emission Development Strategies (EC-LEDS) Clean Energy Program, implemented by Winrock International and Kutaisi City Hall.

"The design of a daisy was selected because this flower is symbolic for Kutaisi. There are 24 solar panels fixed on the flower petals that transform solar energy into electric power"- said EC-LEDS Awareness and Outreach Manager.

The presentation of the Solar Daisy was attended by Kutaisi Mayor. According to him, the Solar Daisy will be convenient for Kutaisi inhabitants and tourists as well.

"Soon a tourist information center will be opened and now we have a Solar Tree as well. I suppose, this idea will be successful. Similar projects can be implemented in other parks. This is a creative idea Kutaisi City was in need of." – said Kutaisi Mayor.

According to Mayor, shortly after opening of Kutaisi Touristic Information Center, a free WI-FI and electrical library will be available in the park.

ახალი ამბები

ქუთაისში მზის ხე დამონტაჟდა

13:32 / 30.06.2016

"მზის გვირილას" გამოყენებით შესაძლებელი იქნება დღის განმავლობაში 60, ხოლო ერთდროულად 30 მობილური დაიმუხტოს.

ქუთაისში, ტურიზმის საინფორმაციო ცენტრის ყოფილი შენობის ადგილას ენერგოეფექტური გვირილის ხე დამონტაჟდა. მასზე დამაგრებული პანელების დახმარებით მზის ენერგია ელექტროენერგიად გარდაიქმნება.

"მზის გვირილას" გამოყენებით შესაძლებელი იქნება დღის განმავლობაში 60, ხოლო ერთდროულად 30 მობილური დაიმუხტოს.

ენეგოეფექტური გვირილის ხის პროექტი აშშ-ის საერთაშორისო განვითარების

Source: **TV Iberia**
Date: **July 1, 2016**
Title: **Solar Daisy in Kutaisi**

For the first time in Georgia a Solar Daisy is installed in Kutaisi. According to the City Hall decision, a public park was arranged in the central-historical district of the city equipped with environmentally clean, modern and efficient technologies. The Solar Daisy was installed in this park. The installation converts solar energy into electric power through solar panels. The panels are fixed on the petals of the flower. The Solar Daisy promotes the idea of clean and healthy environment".

"You know that soon a touristic information center will be opened here and it is very important that such technological system is arranged in this park. If this idea succeeds, and I hope it will, we can implement similar project in other parks as well. You have also attended the presentation at Torpedo Football Base today, where the expensive solar photovoltaic system was installed" - said Kutaisi Mayor.

Source: **Rioni TV**
Date: **June 30, 2016**
Title: **Solar Daisy in Kutaisi**

A Solar Daisy is installed in Kutaisi in the framework of Community-Based Social Marketing pilot campaign. 30 points of cell phone chargers are accumulated on the construction, which is equipped with solar elements and modern technologies. In the nearest future, it will be possible to use electric library in the park on Rustaveli Avenue after the opening of touristic information center. Kutaisi City Hall agreed to implement this project following the initiative of Economic Development department. Energy efficient project was implemented within Community-Based Social Marketing pilot campaign implemented by Winrock International Georgia, with the support of USAID.

"The idea of the project was to install a pilot daisy-shaped tree - a construction that is equipped with modern technologies, solar energy transforming devices with charging points in order to charge cell phones and other devices. It will be useful for Kutaisi citizens and tourists as well. We will monitor the work of this new technology"-said Kutaisi Mayor.

"Kutaisi Municipality has joined Covenant of Mayors Initiative (EU) in 2011 that aims at reduction of GHG emissions by 20% for 2020 year. For this aim, it is essential to implement energy efficient and renewable energy projects, along with other projects, as well. This project is a pilot and we will monitor the outcome for the city"-said EC-LEDS Clean Energy Program Chief of Party.

Presentation of a demonstration project took place at Torpedo Football Base. The Project implementers observed works completed under the project. After the presentation, a football match was held. With more details, our correspondent.

"A demonstration project was presented at Torpedo Football Base in the framework of Energy Days. Project donors and implementers observed the energy efficient construction of 200L solar water heating system installed on the territory of Football Base."

"Energy efficient water heating system was installed at Torpedo Football Base, which will significantly reduce consumption of energy on the territory of the base. We plan to implement similar projects in municipal buildings with the support of donors"-said the Head of Economic Development department at Kutaisi City Hall.

"As you already know, BP-Georgia works almost 20 years in Georgia and manages three different pipelines, but more than 13 years our company implements various social and economic projects as well. This project helps Kutaisi and other big cities to join EU initiative-Covenant of Mayors that aims to reduce GHG emissions in the atmosphere by 20% by 2020"- BP-Georgia General Manager.

Project was implemented by Energy Efficiency Center – Georgia with the financial support of BP – Georgia and its oil and gas partners, Kutaisi City Hall, USAID and Winrock International.

"As this Base serves not only professional teams, but amateur and schoolchildren teams as well, all of them will benefit from the project results. Total sum of the project is USD150 000 but each component had the separate cost accordingly"- Director of Energy Efficiency Center Georgia.

"After the presentation, Torpedo football players played a match was conducted between two boys teams, future professional footballers were awarded with certificates".

Source: **newpress.ge**
Date: **June 30, 2016**
Title: **Photovoltaic Lighting System is Installed on Torpedo Football Base**

Various renewable energy and energy efficient systems were installed on Torpedo Football Base. A photovoltaic lighting system was installed and connected to network on Torpedo Football Base. System consists of sixteen 30-watt and ten 60-watt LED lights that were replaced on all lighting polls around the stadium. The peak capacity of the solar electric system is 1560 watt. A 2000-liter capacity solar water heating system was also installed and connected to the existing hot water system working on natural gas.

In the main building, 350 incandescent light bulbs were replaced by compact fluorescent lamps. After the presentation, Torpedo football players played a match. The players were awarded certificates, T-shirts and caps.

Project was implemented by Energy Efficiency Center Georgia, financial support of BP–Georgia and its oil and gas partners, Kutaisi City Hall, USAID and Winrock International Georgia.

NewPress

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თავფური პოლიტიკა ეკონომიკა საზოგადოება სამართალი ობიექტივი თვითმმართველობა გადაცემა აქცენტი [Video] მეტი

ძებნა...

უფასო ინტერნეტი და ელექტროენერგია—ქუთაისში ენერგოეფექტური სკვერი გაიხსნა

სიახლეები - 2016-06-30 11:06:00 18487

ქუთაისში ენერგოეფექტური სკვერი გაიხსნა. სკვერი რუსთაველის გამზირზე მდებარეობს, სადაც ტურიზმის საინფორმაციო ცენტრი ფუნქციონირებდა. ადგილობრივი ხელისუფლების გადაწყვეტილებითა და დონორი ორგანიზაციების მხარდაჭერით ადგილზე „მზის გვირილა“ დამონტაჟდა.

ქუთაისის მერიის ეკონომიკური სამსახურის უფროსის, პაატა კლდიაშვილის განცხადებით, ქუთაისის მუნიციპალიტეტის მერიამ ეკონომიკური განვითარებისა და ადგილობრივი თვითმმართველობის ქონების მართვის სამსახურის ეკონომიკური განვითარების განყოფილების ინიციირებით მიიღო გადაწყვეტილება ქალაქის ცენტრალურ-ისტორიულ უბანში ენერგოეფექტური ტექნოლოგიებით აღჭურვილი ეკოლოგიურად სუფთა სკვერის მოწყობის შესახებ. აღნიშნულ სკვერში პროექტით გათვალისწინებულია მზის ელემენტებით და თანამედროვე ტექნოლოგიებით აღჭურვილი კონსტრუქციის, ე.წ. „მზის გვირილის“ დამონტაჟება, სადაც თავმოყრილი იქნება USB დასამუხტი წერტილები (მობილური ტელეფონების, ნოუთბუქებისა და სხვა ელექტრო ტექნიკისათვის), მოსასვენებელი სკამები განათებით, გამწვანება (სკვერი შესაძლებელია შემოსაზღვრული იქნეს ერთი მეტრის სიმაღლის ბუჩქოვანი მცენარეებით, ასევე დამუშავდეს და შეივსოს სკვერში არსებული მცენარეული საფარი) და მზის ენერგიაზე მომუშავე სანათი წერტილები. რომელიც დაგეგმილია „დაბალემისიებიანი განვითარების სტრატეგიების შესაძლებლობათა გაძლიერება (EC-LEDS) სუფთა ენერგიის პროგრამის“ მიერ.

ადგილზე დამონტაჟებული 30 ტიპის მობილურისა და სმარტფონის დამტენები. ასევე უახლოეს პერიოდში შესაძლებელი იქნება ელექტორნული ბიბლიოთეკით სარგებლობა.